

**Notice of Allowability**

Application No.

10/701,705

Examiner

Iraj A. Mohandesi

Applicant(s)

HEIDEL, ROBERT ERIC

Art Unit

2834

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 05/07/2004.
2. ☒ The allowed claim(s) is/are 20-35.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date <u>02/02/2004</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                                 | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

## **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicant on 02/09/2005 and 02/14/2005.

2. Claims 1-19 have been canceled
3. Claims 1-9 have been replaced by new claims 20-35 as follows.
4. No new matter has been added.

Claim 20 (new): A process for creating hydroelectric power that comprises: hydraulic turbines, a generator, a turbine housing, a generator housing, and a turbine shaft, said hydraulic turbines attaching to water mains or water towers or aqueducts, or sewage lines or pipes; capturing the kinetic energy of flowing water or sewage by said water or sewage striking blades of the hydraulic turbines; changing the kinetic energy into electric energy by turning said turbine shaft and generator; attaching high voltage wires to said generator that can conduct new electric energy to a conduction pipe; positioning said conduction pipe which insulates and transports the high voltage wires along the entirety of the water main or sewage line, or pipe; connecting the conduction pipe to a nearest power substation, wherein one side of the inside

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wall of hydraulic turbine housing has a hollow cylindrical protrusion where said turbine shaft fits into the cylindrical protrusion for support, wherein on the inside wall of the turbine housing opposite to hollow cylindrical protrusion has a hole and a second grooved protrusion with a circumference equal to said hole supporting said turbine shaft and allow said turbine shaft to enter said generator housing without any water leakage into generator housing, wherein the hydraulic turbine is housed in a crescent shaped housing which will have a base that matches the perimeter of said hole cut into the main, tower, line, or pipe and said housing will be made of the same material as the medium or a more stronger and durable material able to withstand the pressure of the flowing fluid.

Claim 21(new): A process in Claim 20, wherein attaching said hydraulic turbine constitutes cutting a hole in said water main or water tower, or aqueduct or sewage line, or pipeline.

Claim 22 (new): A process in Claim 20 in which the housing of the hydraulic turbine is attached to the line or main, or pipe and sealed so as no pressurized fluid may escape said main or said tower or said aqueduct, or said pipe.

Claim 23 (new): A process in claim 20, wherein attached to the outside wall of the hydraulic cylinder housing opposite the side of the hollow cylindrical protrusion will be a box shaped structure that will house a generator.

Claim 24 (new): A process in claim 20, where in the part of the turbine shaft that passes through the second grooved protrusion will be grooved to fit into this protrusion.

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Claim 25 (new): A process in claim 20, wherein the turbine will be positioned within said housing so as to let said turbine blades protrude into the center of said main line, or aqueduct, or pipe where fluid velocity is greatest and so said blades will be impinged upon by the flowing water or sewage enabling the turbine and turbine shaft to turn.

Claim 26 (new): A process in Claim 20, wherein the second square shaped housing has a hole cut in the side facing the first hydraulic turbine housing and coinciding with the hole cut in the side of the first hydraulic turbine housing which will allow the turbine shaft to enter the second square shaped housing.

Claim 27 (new): A process in claim 25, wherein the generator will be positioned within the generator housing so that said turbine shaft will be connected to the generator.

Claim 28 (new): A process in claim 25, wherein two high voltage wires conduct said generated electricity from the generator to said conduction pipe and a small tube attached to the roof of the generator housing allows said wires to reach said conduction pipe.

Claim 29 (new): A process in claim 25, wherein an opening in the roof of the generator housing will allow the insulated high voltage wire to conduct electric energy to said conduction pipe.

Claim 30 (new): A process in claim 20, wherein many hydraulic turbine housings and generator housings is placed at intervals along the entirety of the water main or water tower or aqueduct, or sewage line, or pipe in order to capture as much kinetic energy as possible.

Claim 31 (new): A process in claim 20, wherein a conduction pipe that will insulate and

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transport the high voltage wires coming from the generator will follow and run for the entire length of the main, or tower, or aqueduct, or pipe in order to allow more generators to conduct their energy to power substations.

Claim 32 (new): A process in claim 29, wherein openings will be all along the conduction pipe that connect to the tube on the roof of the generator housing so as to allow insulated high voltage wires from the generators to connect to said conduction pipe and conduct their electricity into the conduction pipe.

Claim 33 (new): A process in claim 30, wherein the conduction pipe will conduct all of electricity to the nearest power substation in the geographical area of the water main, water tower, aqueduct, sewage line, or pipe.

Claim 34 (new): A process in claim 30, wherein when the high voltage wires have to travel a long distance to a power substation and line loss would be great, storage systems will be installed at adjacent water pumping stations in order to keep line loss at a minimum.

Claim 35 (new): A process in claim 20, wherein by consumer's demand and purchasing of utilities they will be making electricity by water and sewage flowing through water mains, water towers, sewage lines, aqueducts, and pipes that carry water or sewage to and from their homes and businesses and that the electricity created by their demand for utilities is sold back to them.

***Allowable Subject Matter***

The following is an examiner's statement of reasons for allowance:

5. Claims 20-35 have been allowed.

The prior art of the record does not teach or suggest a supporting structure for a process for creating hydroelectric power that comprises: hydraulic turbines a generator a housing, a shaft, said hydraulic turbines attaching to water mains or water towers or aqueducts, or sewage lines or pipes; including inter alia, a conduction pipe; positioning said conduction pipe which insulates and transports the high voltage wires along the entirety of the water main or sewage line, or pipe; connecting the conduction pipe to a nearest power substation, wherein one side of the inside wall of hydraulic turbine housing has a hollow cylindrical protrusion where said turbine shaft fit into the cylindrical protrusion for support, wherein on the inside wall of opposite to hollow cylindrical protrusion has a hole and a second grooved protrusion with a circumference equal to said hole supporting said turbine shaft and allow said turbine shaft to enter said generator housing without any water leakage into generator housing, wherein hydraulic turbine is housed in a crescent shaped housing which will have a base that matches the perimeter of said hole cut into the main, tower, line, or pipe and said housing will be made of the same material as the medium or a more stronger and durable material able to withstand the pressure of the fluid.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany

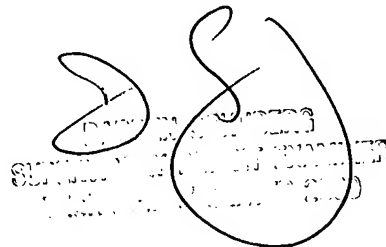
the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iraj A. Mohandesi whose telephone number is 571-272-2028. The examiner can normally be reached on M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

I Mohandesi February 15, 2006

A handwritten signature in black ink, appearing to be "Iraj A. Mohandesi", is written over a faint, circular, textured background that resembles a stamp or a watermark.